

SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-3.rge.

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This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-3.rge.

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GenCore version 5.1.9
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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 876.6 Seconds
(without alignments)
1313.089 Million cell updates/sec

Title: US-10-826-119-3
Perfect score: 16.8
Sequence: 1 acrtcaacrtgactkaca 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:*

- 1: gb_env:*
- 2: gb_pat:*
- 3: gb_ph:*
- 4: gb_pl:*
- 5: gb_pr:*
- 6: gb_ro:*
- 7: gb_sts:*
- 8: gb_sy:*
- 9: gb_un:*
- 10: gb_vi:*
- 11: gb_ov:*
- 12: gb_htg:*
- 13: gb_in:*
- 14: gb_om:*
- 15: gb_ba:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query		Length	DB	ID	Description
		Match					
1	16.8	100.0		331	14	AF039171	AF039171 Ovis arie
2	16.8	100.0		346	14	AF104682	AF104682 Capra ibe
c 3	16.8	100.0		610	7	BV298971	BV298971 S239P6149
4	16.8	100.0		12785	14	AF493541	AF493541 Bos tauru
5	16.8	100.0		12785	14	AF493542	AF493542 Bos tauru
6	16.8	100.0		12785	14	AY308066	AY308066 Bos tauru
7	16.8	100.0		12785	14	AY308067	AY308067 Bos tauru
8	16.8	100.0		12785	14	AY308068	AY308068 Bos tauru
9	16.8	100.0		12785	14	AY308069	AY308069 Bos tauru
10	16.8	100.0		13210	14	AF490528	AF490528 Bos tauru
11	16.8	100.0		13210	14	AF490529	AF490529 Bos tauru
12	16.8	100.0		16322	14	AY684273	AY684273 Bos grunn
13	16.8	100.0		16337	14	AB074962	AB074962 Bos tauru
14	16.8	100.0		16337	14	AB074963	AB074963 Bos tauru
15	16.8	100.0		16337	14	AB074964	AB074964 Bos tauru
16	16.8	100.0		16337	14	AB074965	AB074965 Bos tauru
17	16.8	100.0		16337	14	AB074967	AB074967 Bos tauru
18	16.8	100.0		16337	14	AB074968	AB074968 Bos tauru
19	16.8	100.0		16337	14	AY676865	AY676865 Bos tauru
20	16.8	100.0		16337	14	DQ124387	DQ124387 Bos tauru
21	16.8	100.0		16337	14	DQ124395	DQ124395 Bos tauru
22	16.8	100.0		16338	14	AB074966	AB074966 Bos tauru
23	16.8	100.0		16338	14	AF492351	AF492351 Bos tauru
24	16.8	100.0		16338	14	AY526085	AY526085 Bos tauru
25	16.8	100.0		16338	14	AY676863	AY676863 Bos tauru
26	16.8	100.0		16338	14	MI BTXX	V00654 Bos taurus
27	16.8	100.0		16339	14	AF492350	AF492350 Bos indic
28	16.8	100.0		16339	14	AY676855	AY676855 Bos tauru
29	16.8	100.0		16339	14	AY676856	AY676856 Bos tauru
30	16.8	100.0		16339	14	AY676862	AY676862 Bos tauru
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37	16.8	100.0		16340	14	AY676857	AY676857 Bos tauru
38	16.8	100.0		16340	14	AY676859	AY676859 Bos tauru
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41	16.8	100.0		16340	14	AY676871	AY676871 Bos tauru
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ALIGNMENTS

RESULT 1

AF039171

LOCUS AF039171 331 bp DNA linear MAM 15-JAN-1999

DEFINITION *Ovis aries* cytochrome oxidase subunit 2 (COII) gene, partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene, complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial genes for mitochondrial products.

ACCESSION AF039171

VERSION AF039171.1 GI:3769419

KEYWORDS

SOURCE mitochondrion *Ovis aries* (sheep)

ORGANISM *Ovis aries*
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; *Ovis*.

REFERENCE 1 (bases 1 to 331)

AUTHORS Tartaglia,M. and Saulle,E.

TITLE Rapid communication: nucleotide sequence of porcine and ovine tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 76 (8), 2207-2208 (1998)

PUBMED 9734874

REFERENCE 2 (bases 1 to 331)

AUTHORS Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (17-DEC-1997) Reparto di Genetica Molecolare, Laboratorio di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina Elena, 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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/organelle="mitochondrion"
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/tissue_type="peripheral blood"

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CDS <1..33
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CDS 106..306
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ORIGIN

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 Best Local Similarity 83.3%; Pred. No. 87;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACRTCAACRTGACTKACA 18
 ||:|||||:|||||:|||
 Db 121 ACATCAACGTGACTTACA 138

RESULT 2

AF104682

LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000

DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial
 cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene,
 complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial
 genes for mitochondrial products.

ACCESSION AF104682

VERSION AF104682.1 GI:7248421

KEYWORDS

SOURCE mitochondrion Capra ibex ibex (Alpine ibex)

ORGANISM Capra ibex ibex

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1 (bases 1 to 346)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
 and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 346)

AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES

source

Location/Qualifiers

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/note="common: Alpine ibex"

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CDS

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CDS

115. .312

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ORIGIN

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Query Match          100.0%;  Score 16.8;  DB 14;  Length 346;
Best Local Similarity 83.3%;  Pred. No. 88;
Matches 15;  Conservative 3;  Mismatches 0;  Indels 0;  Gaps 0;

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QY      1 ACRTCAACRTGACTKACA 18
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Db      130 ACATCAACATGACTTACA 147

```

RESULT 3

BV298971/c

LOCUS BV298971 610 bp DNA linear STS 25-JAN-2005

DEFINITION S239P6149FB2.TO ChinaGrayWolf Canis lupus STS genomic, sequence tagged site.

ACCESSION BV298971

VERSION BV298971.1 GI:57461206

KEYWORDS STS.

SOURCE Canis lupus (gray wolf)

ORGANISM Canis lupus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
Canis.

REFERENCE 1 (bases 1 to 610)

AUTHORS Lindblad-Toh, K.

TITLE The genome sequence of Canis familiaris

JOURNAL Unpublished (2004)

COMMENT

Contact: Kerstin Lindblad-Toh
Whitehead Institute for Biomedical Research, Center for Genome
Research
320 Charles Street, Cambridge, MA 02141, USA
Tel: 6172521477
Fax: 6172580903
Email: kersli@genome.wi.mit.edu
Primer A: No sequence submitted
Primer B: No sequence submitted
STS size: 610
Protocol:
WGS-discovery (WGS):
Paired-end low-coverage whole genome shotgun reads were generated
from 9 breeds
(German Shepherd, Rottweiler, Bedlington Terrier, Beagle, Labrador
Retriever, English
Shepherd, Italian Greyhound, Alaskan Malamute and the Portuguese

Water Dog -100,000 each)
 and five other canids (Chinese, Alaskan, Indian and Spanish Gray Wolf as well as the Californian Coyote).
 The WGS reads were placed uniquely on the CanFam1.0 boxer assembly and SNP detection was carried out by SSAHA-SNP. 863872 reads were annotated as STSs and 485941 SNPs were annotated with alleles from the boxer and the breed or canid from which the particular read came. The validation rate for these SNPs was estimated at approximately 98%.
 WGA-discovery (WGA) of Boxer/Poodle SNPs:
 A second set of SNPs was generated using a similar methodology except that the contigs from the 1.5x poodle assembly (Kirkness 2003) were used instead of WGS reads. Since this sequence lacked base quality scores, arbitrary quality scores of phred 40 were assigned before the poodle sequence was placed uniquely on the CanFam1.0 boxer assembly and SNP detection was carried out by SSAHA-SNP. 1637780 SNPs were annotated with alleles from the boxer and the poodle. The validation rate for these SNPs was estimated at approximately TBD%.
 Internal-WGA-discovery (I-WGA):
 A third set of SNPs were discovered by comparing reads in the WGA assembly. SNPs were defined as mismatch positions that had a base quality of ≥ 30 on both reads in a region that aligned without gaps, and with at most one additional mismatch in the ten flanking bases. For each allele, at least one additional read had to confirm it. 731476 SNPs were annotated with alleles between the two boxer alleles. The validation rate for these SNPs was estimated at approximately TBD%.

FEATURES
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 STS
 <1. .>610
 ORIGIN

Query Match 100.0%; Score 16.8; DB 7; Length 610;
 Best Local Similarity 83.3%; Pred. No. 91;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACRTCAACRTGACTKACA 18
 ||:|||||:|||||:|
 Db 82 ACATCAACATGACTTACA 65

RESULT 4
 AF493541
 LOCUS AF493541 12785 bp DNA linear MAM 15-APR-2002
 DEFINITION Bos taurus isolate D NADH dehydrogenase subunit 1 (ND1), NADH

dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493541
 VERSION AF493541.1 GI:20149067
 KEYWORDS .
 SOURCE mitochondrion Bos taurus (cattle)
 ORGANISM Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)
 AUTHORS Wettstein, P.J.
 TITLE Bos Taurus Mitochondrial Protein Coding Regions
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)
 AUTHORS Wettstein, P.J.
 TITLE Direct Submission
 JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers
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 S I L I G G W G G L N Q T Q L R K I M A Y S S I A H M G W M T A V L P Y N P T M T L L N L I I Y I I M T S T M F T M
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Query Match 100.0%; Score 16.8; DB 14; Length 12785;
 Best Local Similarity 83.3%; Pred. No. 1.1e+02;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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QY      1 ACRTCAACRTGACTKACA 18
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Db      5044 ACGTCAACATGACTGACA 5061

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RESULT 5

AF493542

LOCUS AF493542 12785 bp DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate F NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493542

VERSION AF493542.1 GI:20149081

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

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 Best Local Similarity 83.3%; Pred. No. 1.1e+02;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 ACRTCAACRTGACTKACA 18
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Db      5044 ACGTCAACATGACTGACA 5061

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 DEFINITION Bos taurus isolate C31 mitochondrion, partial genome.
 ACCESSION AY308066
 VERSION AY308066.1 GI:37960014
 KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein, P.J., Lonza, R., Borson, N.D. and McLean, S.

TITLE Direct Submission

JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
537, Rochester, MN 55905, USA

FEATURES

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Query Match 100.0%; Score 16.8; DB 14; Length 12785;
 Best Local Similarity 83.3%; Pred. No. 1.1e+02;
 Matches 15; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ACRTCAACRTGACTKACA 18
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 Db 5044 ACGTCAACATGACTGACA 5061

RESULT 7

AY308067

LOCUS AY308067 12785 bp DNA circular MAM 30-NOV-2003

DEFINITION Bos taurus isolate C33 mitochondrion, partial genome.

ACCESSION AY308067

VERSION AY308067.1 GI:37960028

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus.

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein, P.J., Lonza, R., Borson, N.D. and McLean, S.

TITLE Direct Submission

JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
 537, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

[start](#) | [next page](#)

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-5.rge.

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This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-5.rge.

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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 1022.7 Seconds
(without alignments)
1313.089 Million cell updates/sec

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Listing first 45 summaries

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- 1: gb_env:*
- 2: gb_pat:*
- 3: gb_ph:*
- 4: gb_pl:*
- 5: gb_pr:*
- 6: gb_ro:*
- 7: gb_sts:*
- 8: gb_sy:*
- 9: gb_un:*
- 10: gb_vi:*
- 11: gb_ov:*
- 12: gb_htg:*
- 13: gb_in:*
- 14: gb_om:*
- 15: gb_ba:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	% Query Match	Length	DB	ID	Description
1	19.8	100.0	331	14	AF039171	AF039171 Ovis arie
2	19.8	100.0	346	14	AF104682	AF104682 Capra ibe
3	19.8	100.0	12785	14	AF493541	AF493541 Bos tauru
4	19.8	100.0	12785	14	AF493542	AF493542 Bos tauru
5	19.8	100.0	12785	14	AY308066	AY308066 Bos tauru
6	19.8	100.0	12785	14	AY308067	AY308067 Bos tauru
7	19.8	100.0	12785	14	AY308068	AY308068 Bos tauru
8	19.8	100.0	12785	14	AY308069	AY308069 Bos tauru
9	19.8	100.0	13210	14	AF490528	AF490528 Bos tauru
10	19.8	100.0	13210	14	AF490529	AF490529 Bos tauru
11	19.8	100.0	16322	14	AY684273	AY684273 Bos grunn
12	19.8	100.0	16337	14	AB074962	AB074962 Bos tauru
13	19.8	100.0	16337	14	AB074963	AB074963 Bos tauru
14	19.8	100.0	16337	14	AB074964	AB074964 Bos tauru
15	19.8	100.0	16337	14	AB074965	AB074965 Bos tauru
16	19.8	100.0	16337	14	AB074967	AB074967 Bos tauru
17	19.8	100.0	16337	14	AB074968	AB074968 Bos tauru
18	19.8	100.0	16337	14	AY676865	AY676865 Bos tauru
19	19.8	100.0	16337	14	DQ124387	DQ124387 Bos tauru
20	19.8	100.0	16337	14	DQ124395	DQ124395 Bos tauru
21	19.8	100.0	16338	14	AB074966	AB074966 Bos tauru
22	19.8	100.0	16338	14	AF492351	AF492351 Bos tauru
23	19.8	100.0	16338	14	AY526085	AY526085 Bos tauru
24	19.8	100.0	16338	14	AY676863	AY676863 Bos tauru
25	19.8	100.0	16338	14	MI BTXX	V00654 Bos taurus
26	19.8	100.0	16339	14	AF492350	AF492350 Bos indic
27	19.8	100.0	16339	14	AY676855	AY676855 Bos tauru
28	19.8	100.0	16339	14	AY676856	AY676856 Bos tauru
29	19.8	100.0	16339	14	AY676862	AY676862 Bos tauru
30	19.8	100.0	16339	14	AY676866	AY676866 Bos tauru
31	19.8	100.0	16339	14	AY676867	AY676867 Bos tauru
32	19.8	100.0	16339	14	AY676868	AY676868 Bos tauru
33	19.8	100.0	16339	14	AY676869	AY676869 Bos tauru
34	19.8	100.0	16339	14	AY676870	AY676870 Bos tauru
35	19.8	100.0	16339	14	AY676873	AY676873 Bos tauru
36	19.8	100.0	16340	14	AY676857	AY676857 Bos tauru
37	19.8	100.0	16340	14	AY676859	AY676859 Bos tauru
38	19.8	100.0	16340	14	AY676860	AY676860 Bos tauru
39	19.8	100.0	16340	14	AY676864	AY676864 Bos tauru
40	19.8	100.0	16340	14	AY676871	AY676871 Bos tauru
41	19.8	100.0	16340	14	DQ124371	DQ124371 Bos tauru
42	19.8	100.0	16340	14	DQ124372	DQ124372 Bos tauru
43	19.8	100.0	16340	14	DQ124373	DQ124373 Bos tauru
44	19.8	100.0	16340	14	DQ124374	DQ124374 Bos tauru
45	19.8	100.0	16340	14	DQ124375	DQ124375 Bos tauru

ALIGNMENTS

RESULT 1

AF039171

LOCUS AF039171 331 bp DNA linear MAM 15-JAN-1999

DEFINITION *Ovis aries* cytochrome oxidase subunit 2 (COII) gene, partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene, complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial genes for mitochondrial products.

ACCESSION AF039171

VERSION AF039171.1 GI:3769419

KEYWORDS

SOURCE mitochondrion *Ovis aries* (sheep)

ORGANISM *Ovis aries*
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; *Ovis*.

REFERENCE 1 (bases 1 to 331)

AUTHORS Tartaglia, M. and Saulle, E.

TITLE Rapid communication: nucleotide sequence of porcine and ovine tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 76 (8), 2207-2208 (1998)

PUBMED 9734874

REFERENCE 2 (bases 1 to 331)

AUTHORS Tartaglia, M.

TITLE Direct Submission

JOURNAL Submitted (17-DEC-1997) Reparto di Genetica Molecolare, Laboratorio di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina Elena, 299, Rome 00161, Italy

FEATURES

source Location/Qualifiers

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/organelle="mitochondrion"

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/db_xref="taxon:9940"

/tissue_type="peripheral blood"

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CDS <1. .33

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/transl_table=2

/product="cytochrome oxidase subunit 2"

/protein_id="AAD05066.1"

/db_xref="GI:3769420"

/translation="YFEKWSASML"

tRNA 37. .104

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CDS 106. .306

/codon_start=1

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/protein_id="AAD05067.1"

/db_xref="GI:3769421"

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PKQNTPWETKWTKIYLP LSLPL"

CDS 267. .>331

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/transl_table=2

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/db_xref="GI:3769422"

/translation="MNE NLFASFITPMMLGLPLVTL"

ORIGIN

Query Match 100.0%; Score 19.8; DB 14; Length 331;
 Best Local Similarity 85.7%; Pred. No. 4.1;
 Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACACRTCAACRTGACTKACA 21
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 Db 118 GACACATCAACGTGACTTACA 138

RESULT 2

AF104682

LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000

DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial
 cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene,
 complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial
 genes for mitochondrial products.

ACCESSION AF104682

VERSION AF104682.1 GI:7248421

KEYWORDS

SOURCE mitochondrion Capra ibex ibex (Alpine ibex)

ORGANISM Capra ibex ibex

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1 (bases 1 to 346)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
 and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 346)

AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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/db_xref="taxon:80420"

/tissue_type="peripheral blood"

/country="Italy:Valle d'Aosta, western Alps"

/note="common: Alpine ibex"

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/protein_id="AAF43480.1"

/db_xref="GI:7248422"

/translation="PLKHFEKWSASML"

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47. .113

/product="tRNA-Lys"

CDS

115. .312

/note="ATPase8"

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ORIGIN

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Query Match      100.0%;  Score 19.8;  DB 14;  Length 346;
Best Local Similarity 85.7%;  Pred. No. 4.1;
Matches 18;  Conservative 3;  Mismatches 0;  Indels 0;  Gaps 0;

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Qy      1 GACACRTCAACRTGACTKACA 21
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Db      127 GACACATCAACATGACTTACA 147

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RESULT 3

AF493541

LOCUS AF493541 12785 bp DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate D NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493541

VERSION AF493541.1 GI:20149067

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

source 1. .12785

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/organelle="mitochondrion"

/mol_type="genomic DNA"

/isolate="D"

/db_xref="taxon:9913"

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FMANSTTTTSLSLSTWNKTPIMTVLILATLLSMGGLPLPSGFMKPMI IQEMTKNNSI
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CDS       4274. .4957
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          /db_xref="GI:20149071"
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CDS complement(10813..11340)
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Query Match 100.0%; Score 19.8; DB 14; Length 12785;
 Best Local Similarity 85.7%; Pred. No. 7.7;
 Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GACACRTCAACRTGACTKACA 21
 |||||:||||:||||:|
 Db 5041 GACACGTCAACATGACTGACA 5061

RESULT 4
 AF493542

LOCUS AF493542 12785 bp DNA linear MAM 15-APR-2002
 DEFINITION Bos taurus isolate F NADH dehydrogenase subunit 1 (ND1), NADH
 dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI),
 cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6,

cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493542
 VERSION AF493542.1 GI:20149081
 KEYWORDS .
 SOURCE mitochondrion Bos taurus (cattle)
 ORGANISM Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)
 AUTHORS Wettstein, P.J.
 TITLE Bos Taurus Mitochondrial Protein Coding Regions
 JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)
 AUTHORS Wettstein, P.J.
 TITLE Direct Submission
 JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers
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 Best Local Similarity 85.7%; Pred. No. 7.7;
 Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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RESULT 5

AY308066

LOCUS AY308066 12785 bp DNA circular MAM 30-NOV-2003

DEFINITION Bos taurus isolate C31 mitochondrion, partial genome.

ACCESSION AY308066

VERSION AY308066.1 GI:37960014

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein, P.J., Lonza, R., Borson, N.D. and McLean, S.

TITLE Direct Submission

JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
537, Rochester, MN 55905, USA

FEATURES

source

Location/Qualifiers

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CDS

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Query Match 100.0%; Score 19.8; DB 14; Length 12785;
 Best Local Similarity 85.7%; Pred. No. 7.7;
 Matches 18; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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RESULT 6 AY308067

LOCUS AY308067 12785 bp DNA circular MAM 30-NOV-2003
 DEFINITION Bos taurus isolate C33 mitochondrion, partial genome.
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 VERSION AY308067.1 GI:37960028
 KEYWORDS .
 SOURCE mitochondrion Bos taurus (cattle)
 ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)
AUTHORS Wettstein,P.J., Lonza,R., Borson,N.D. and McLean,S.
TITLE Direct Submission
JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
537, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

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[start](#) | [next page](#)

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-6.rge.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-6.rge.

[start](#) | [next page](#)

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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 1071.4 Seconds
(without alignments)
1313.089 Million cell updates/sec

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Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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- 14: gb_om:*
- 15: gb_ba:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	No.	Score	% Query Match	Length	DB	ID	Description
c	1	20.4	100.0	346	14	AF104682	AF104682 Capra ibe
c	2	20.4	100.0	350	14	AF104681	AF104681 Rupicapra
c	3	20.4	100.0	520	14	AB099040	AB099040 Bos tauru
c	4	20.4	100.0	567	14	AB099131	AB099131 Bos tauru
c	5	20.4	100.0	1241	14	CHMTDNA	X65975 C.hircus mi
	6	20.4	100.0	5351	14	AB075020	AB075020 Bos tauru
c	7	20.4	100.0	12785	14	AF493541	AF493541 Bos tauru
c	8	20.4	100.0	12785	14	AF493542	AF493542 Bos tauru
c	9	20.4	100.0	12785	14	AY308066	AY308066 Bos tauru
c	10	20.4	100.0	12785	14	AY308067	AY308067 Bos tauru
c	11	20.4	100.0	12785	14	AY308068	AY308068 Bos tauru
c	12	20.4	100.0	12785	14	AY308069	AY308069 Bos tauru
c	13	20.4	100.0	13210	14	AF490528	AF490528 Bos tauru
c	14	20.4	100.0	13210	14	AF490529	AF490529 Bos tauru
c	15	20.4	100.0	16337	14	AB074962	AB074962 Bos tauru
c	16	20.4	100.0	16337	14	AB074963	AB074963 Bos tauru
c	17	20.4	100.0	16337	14	AB074964	AB074964 Bos tauru
c	18	20.4	100.0	16337	14	AB074965	AB074965 Bos tauru
c	19	20.4	100.0	16337	14	AB074967	AB074967 Bos tauru
c	20	20.4	100.0	16337	14	AB074968	AB074968 Bos tauru
c	21	20.4	100.0	16337	14	AY676865	AY676865 Bos tauru
c	22	20.4	100.0	16337	14	DQ124387	DQ124387 Bos tauru
c	23	20.4	100.0	16337	14	DQ124395	DQ124395 Bos tauru
c	24	20.4	100.0	16338	14	AB074966	AB074966 Bos tauru
c	25	20.4	100.0	16338	14	AF492351	AF492351 Bos tauru
c	26	20.4	100.0	16338	14	AY526085	AY526085 Bos tauru
c	27	20.4	100.0	16338	14	AY676863	AY676863 Bos tauru
c	28	20.4	100.0	16338	14	MI BTXX	V00654 Bos taurus
c	29	20.4	100.0	16339	14	AF492350	AF492350 Bos indic
c	30	20.4	100.0	16339	14	AY676855	AY676855 Bos tauru
c	31	20.4	100.0	16339	14	AY676856	AY676856 Bos tauru
c	32	20.4	100.0	16339	14	AY676862	AY676862 Bos tauru
c	33	20.4	100.0	16339	14	AY676866	AY676866 Bos tauru
c	34	20.4	100.0	16339	14	AY676867	AY676867 Bos tauru
c	35	20.4	100.0	16339	14	AY676868	AY676868 Bos tauru
c	36	20.4	100.0	16339	14	AY676869	AY676869 Bos tauru
c	37	20.4	100.0	16339	14	AY676870	AY676870 Bos tauru
c	38	20.4	100.0	16339	14	AY676873	AY676873 Bos tauru
c	39	20.4	100.0	16340	14	AY676857	AY676857 Bos tauru
c	40	20.4	100.0	16340	14	AY676859	AY676859 Bos tauru
c	41	20.4	100.0	16340	14	AY676860	AY676860 Bos tauru
c	42	20.4	100.0	16340	14	AY676864	AY676864 Bos tauru
c	43	20.4	100.0	16340	14	AY676871	AY676871 Bos tauru
c	44	20.4	100.0	16340	14	DQ124371	DQ124371 Bos tauru
c	45	20.4	100.0	16340	14	DQ124372	DQ124372 Bos tauru

ALIGNMENTS

RESULT 1

AF104682/c

LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000

DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene, complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial genes for mitochondrial products.

ACCESSION AF104682

VERSION AF104682.1 GI:7248421

KEYWORDS .

SOURCE mitochondrion Capra ibex ibex (Alpine ibex)

ORGANISM Capra ibex ibex
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1 (bases 1 to 346)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex, and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 346)

AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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/organelle="mitochondrion"
/mol_type="genomic DNA"
/sub_species="ibex"
/db_xref="taxon:80420"
/tissue_type="peripheral blood"
/country="Italy:Valle d'Aosta, western Alps"
/note="common: Alpine ibex"

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CDS <1..43
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/db_xref="GI:7248422"
/translation="PLKHFEKWSASML"

tRNA 47..113
/product="tRNA-Lys"

CDS 115..312
/note="ATPase8"
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/transl_table=2
/product="ATPase subunit 8"
/protein_id="AAF43481.1"
/db_xref="GI:7248423"
/translation="MPQLDTSTWLTTILSMFLALFII FQLKISKHNFYHNPELTTKVL
KQNTPWETKWKIYLP LLLLPL"

CDS 273..>346
/note="ATPase6"
/codon_start=1
/transl_table=2

/product="ATPase subunit 6"
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 /translation="MNENLFTSFITPMVLGLPLITLII"

ORIGIN

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 Best Local Similarity 81.8%; Pred. No. 28;
 Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARTTCTGGRTTGTGRTARAAGT 22
 |:|||||:|||||:|:|
 Db 230 AATTCTGGGTGTGGTAGAAGT 209

RESULT 2

AF104681/c

LOCUS AF104681 350 bp DNA linear MAM 16-MAR-2000

DEFINITION Rupicapra rupicapra cytochrome oxidase subunit 2 (COII) gene,
 partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8
 gene, complete cds; and ATPase subunit 6 gene, partial cds,
 mitochondrial genes for mitochondrial products.

ACCESSION AF104681

VERSION AF104681.1 GI:7248417

KEYWORDS

SOURCE mitochondrion Rupicapra rupicapra (chamois)

ORGANISM Rupicapra rupicapra

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Rupicapra.

REFERENCE 1 (bases 1 to 350)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
 and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 350)

AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

source

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/organelle="mitochondrion"

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/db_xref="taxon:34869"

/tissue_type="peripheral blood"

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/note="common: chamois"

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/gene="COII"

CDS

<1..43

/gene="COII"

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/transl_table=2

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/protein_id="AAF43477.1"

/db_xref="GI:7248418"

/translation="PLKYFEKWSASMS"

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CDS       116. .316
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CDS       277. .>350
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ORIGIN

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Best Local Similarity 81.8%;  Pred. No. 28;
Matches 18;  Conservative 4;  Mismatches 0;  Indels 0;  Gaps 0;

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Qy      1 ARTTCTGGRTTGTGRTARAAGT 22
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Db      231 AATTCTGGGTTGTGGTAGAAGT 210

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RESULT 3

AB099040/c

LOCUS AB099040 520 bp mRNA linear MAM 12-APR-2003

DEFINITION Bos taurus mitochondrial mRNA for similar to ATP synthase A chain (Protein 6), partial cds, clone: ORCS12732.

ACCESSION AB099040

VERSION AB099040.1 GI:28189830

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1

AUTHORS Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V., Nakano,H.;
Takahashi,T., Imai,K., Hirasawa,A., Shiojima,S., Ikawa,H.,
Suzuki,Y., Tsujimoto,G., Izaike,Y., Todoroki,J. and Hashizume,K.
TITLE Characterization of gene expression profiles in early bovine
pregnancy using a custom cDNA microarray

JOURNAL Mol. Reprod. Dev. 65 (1), 9-18 (2003)

PUBMED 12658628

REFERENCE 2 (bases 1 to 520)

AUTHORS Tsujimoto,G., Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V.,
Nakano,H., Konno,T., Ushizawa,K., Takahashi,T., Imai,K.,
Hirasawa,A., Shiojima,S., Ikawa,H., Suzuki,Y., Izaike,Y.,
Todoroki,J. and Hashizume,K.

TITLE Direct Submission

JOURNAL Submitted (25-DEC-2002) Gozoh Tsujimoto, National Research
Institute for Child Health and Development, Department of
Molecular, Cell Pharmacology; 3-35-31 Taishido, Setagaya, Tokyo
154-8567, Japan (E-mail:gtsujimoto@nch.go.jp, Tel:81-3-3149-2476,

Fax:81-3-3149-1252)

COMMENT This work was performed to collaborate with Developmental Biology Department, National Institute of Agrobiological Sciences. Address: 2 Ikenodai, Tsukuba, Ibaraki, 305-8602 Japan. Phone & Fax: 81-29-838-8633 e-mail: kazuha@affrc.go.jp

This work was funded by Organized Research Combination System (ORCS) project of Ministry of Education, Culture, Sports, Science and Technology.

5' end partial sequence.

FEATURES Location/Qualifiers

source 1. .520

/organism="Bos taurus"

/organelle="mitochondrion"

/mol_type="mRNA"

/db_xref="taxon:9913"

/clone="ORCS12732"

/clone_lib="ORCS bovine utero-placenta cDNA"

/dev_stage="adult"

/note="mixture of uterus and placenta"

CDS <304. .>468

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/transl_table=2

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/protein_id="BAC56530.1"

/db_xref="GI:28189831"

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ORIGIN

Query Match 100.0%; Score 20.4; DB 14; Length 520;

Best Local Similarity 81.8%; Pred. No. 26;

Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARTTCTGGRTTGTGRTARAAGT 22

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Db 68 AGTTCTGGATTGTGATAAAAGT 47

RESULT 4

AB099131/c

LOCUS AB099131 567 bp RNA linear MAM 21-MAY-2003

DEFINITION Bos taurus mitochondrial RNA, similar to 12S rRNA, clone: ORCS11856.

ACCESSION AB099131

VERSION AB099131.1 GI:28189976

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE

1

AUTHORS Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V., Nakano,H., Takahashi,T., Imai,K., Hirasawa,A., Shiojima,S., Ikawa,H., Suzuki,Y., Tsujimoto,G., Izaike,Y., Todoroki,J. and Hashizume,K.

TITLE Characterization of gene expression profiles in early bovine pregnancy using a custom cDNA microarray

JOURNAL Mol. Reprod. Dev. 65 (1), 9-18 (2003)

PUBMED 12658628

REFERENCE 2 (bases 1 to 567)

AUTHORS Tsujimoto,G., Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V.,

Nakano,H., Konno,T., Ushizawa,K., Takahashi,T., Imai,K.,
Hirasawa,A., Shiojima,S., Ikawa,H., Suzuki,Y., Izaike,Y.,
Todoroki,J. and Hashizume,K.

TITLE Direct Submission

JOURNAL Submitted (25-DEC-2002) Gozoh Tsujimoto, National Research
Institute for Child Health and Development, Department of
Molecular, Cell Pharmacology; 3-35-31 Taishido, Setagaya, Tokyo
154-8567, Japan (E-mail:gtsujimoto@nch.go.jp, Tel:81-3-3149-2476,
Fax:81-3-3149-1252)

COMMENT This work was performed to collaborate with Developmental Biology
Department, National Institute of Agrobiological Sciences. Address:
2 Ikenodai, Tsukuba, Ibaraki, 305-8602 Japan. Phone & Fax:
81-29-838-8633 e-mail: kazuha@affrc.go.jp
This work was funded by Organized Research Combination System
(ORCS) project of Ministry of Education, Culture, Sports, Science
and Technology.
5' end partial sequence.

FEATURES Location/Qualifiers
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/organelle="mitochondrion"
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/clone="ORCS11856"
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/dev_stage="adult"
/note="mixture of uterus and placenta"
rRNA 3..536
/note="similar to 12S ribosomal RNA"

ORIGIN

Query Match 100.0%; Score 20.4; DB 14; Length 567;
Best Local Similarity 81.8%; Pred. No. 26;
Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARTTCTGGRTTGTGRTARAAGT 22
|:|||||:||||:|:||||
Db 99 AGTTCTGGATTGTGATAAAAGT 78

RESULT 5

CHMTDNA/c

LOCUS CHMTDNA 1241 bp DNA linear MAM 24-MAY-1996

DEFINITION C.hircus mitochondrial DNA for tRNA(LYS) and F1-ATPase subunits 6
and 8.

ACCESSION X65975

VERSION X65975.1 GI:11740

KEYWORDS ATPase subunit 6; ATPase subunit 8; mitochondrial DNA; transfer
RNA-Lys.

SOURCE mitochondrion Capra hircus (goat)

ORGANISM Capra hircus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1

AUTHORS Dovc,P. and Hecht,W.

TITLE Rapid communication: nucleotide sequence of caprine mitochondrial
genes for tRNA(Lys) and two subunits of F0-ATPase

JOURNAL J. Anim. Sci. 73 (11), 3493 (1995)

PUBMED 8586610

REFERENCE 2 (bases 1 to 1241)

AUTHORS Dovic, P.
 TITLE Direct Submission
 JOURNAL Submitted (12-MAR-1992)* P. Dovic, Institut fuer molekulare Tierzucht, Ludwig-Maximilians-Universitaet, Veterinaerstr 13, W-8000 Muenchen 22, FRG

FEATURES Location/Qualifiers
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 /organelle="mitochondrion"
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 /tissue_type="liver"
 /clone_lib="plasmid mtDNA"
 /dev_stage="adult"
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 /product="tRNA-Lys"
 CDS 177. .374
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 CDS 335. .1015
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 /product="F1-ATPase subunit 8"
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 /db_xref="GOA:Q32644"
 /db_xref="UniProtKB/Swiss-Prot:Q32644"
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 SLYLDHNT"

ORIGIN

Query Match 100.0%; Score 20.4; DB 14; Length 1241;
 Best Local Similarity 81.8%; Pred. No. 23;
 Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARTTCTGGRTTGTGRTARAAGT 22
 |:|||||:||||:|:|
 Db 292 AATTCTGGGTTGTGGTAGAAGT 271

RESULT 6

AB075020

LOCUS AB075020 5351 bp mRNA linear MAM 08-JAN-2003
 DEFINITION Bos taurus Scd mRNA for stearyl-CoA desaturase, complete cds.
 ACCESSION AB075020
 VERSION AB075020.1 GI:27544003
 KEYWORDS .
 SOURCE Bos taurus (cattle)
 ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1
AUTHORS Taniguchi,M., Mannen,H., Shimakura,Y., Oka,A., Watanabe,H.,
Komatsu,M., Tanaka,K., Harper,G.S. and Tsuji,S.
TITLE Differences in stearyl-CoA desaturase mRNA levels in muscle
between Japanese Black and Holstein cattle
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 5351)
AUTHORS Taniguchi,M., Mannen,H. and Tsuji,S.
TITLE Direct Submission
JOURNAL Submitted (30-NOV-2001) Masaaki Taniguchi, Kobe university,
Graduate school of science and technology; 1-1, Rokkoudai, Nada,,
Kobe, Hyogo 657-8501, Japan (E-mail:986d857n@y00.kobe-u.ac.jp,
Tel:81-78-803-5803, Fax:81-78-803-5801)

FEATURES Location/Qualifiers
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/db_xref="taxon:9913"
/chromosome="26"
/haplotype="G"
/country="Japan"
gene 1. .5351
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5'UTR 1. .387
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CDS 388. .1467
/gene="Scd"
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/protein_id="BAC54826.1"
/db_xref="GI:27544004"
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KPGVLLLCFILPTLVPWYLWDETQNSLFFATLFRYALGLNVTWLVNSAAHMYGYRYPY
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DRKKVSKAAILARIIRTGEESYKSG"
3'UTR 1468. .5351
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polyA_signal 5098. .5103
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/gene="Scd"
/note="2nd poly A signal site"

ORIGIN

Query Match 100.0%; Score 20.4; DB 14; Length 5351;
Best Local Similarity 81.8%; Pred. No. 18;
Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ARTTCTGGRTTGTGRTARAAGT 22
|:|||||:|||||:|||||
Db 4 AGTTCTGGATTGTGATAAAAGT 25

RESULT 7

AF493541/c

LOCUS AF493541 12785 bp. DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate D NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493541

VERSION AF493541.1 GI:20149067

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

source

1. .12785

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/organelle="mitochondrion"

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1. .957

/gene="ND1"

CDS

1. .957

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CDS 5870. .6673
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RESULT 8

AF493542/c

LOCUS AF493542 12785 bp DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate F NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493542

VERSION AF493542.1 GI:20149081

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

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Matches 18; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

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Db 5144 AGTTCTGGATTGTGATAAAAGT 5123

RESULT 9
AY308066/c
LOCUS AY308066 12785 bp DNA circular MAM 30-NOV-2003

DEFINITION Bos taurus isolate C31 mitochondrion, partial genome.
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 VERSION AY308066.1 GI:37960014
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 SOURCE mitochondrion Bos taurus (cattle)
 ORGANISM Bos taurus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Bovinae; Bos.
 REFERENCE 1 (bases 1 to 12785)
 AUTHORS Wettstein,P.J., Lonza,R., Borson,N.D. and McLean,S.
 TITLE Direct Submission
 JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
 537, Rochester, MN 55905, USA
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[start](#) | [next page](#)

SCORE 1.3 BuildDate: 11/17/2006

SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-3.rge.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-3.rge.

[start](#) | [next page](#)

[Go Back to previous page](#)

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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 876.6 Seconds
(without alignments)
1313.089 Million cell updates/sec

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Perfect score: 16.8
Sequence: 1 acrtcaacrtgactkaca 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 2: gb_pat:*
- 3: gb_ph:*
- 4: gb_pl:*
- 5: gb_pr:*
- 6: gb_ro:*
- 7: gb_sts:*
- 8: gb_sy:*
- 9: gb_un:*
- 10: gb_vi:*
- 11: gb_ov:*
- 12: gb_htg:*
- 13: gb_in:*
- 14: gb_om:*
- 15: gb_ba:*

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 Db 121 ACATCAACGTGACTTACA 138

RESULT 2

AF104682

LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000

DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial
 cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene,
 complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial
 genes for mitochondrial products.

ACCESSION AF104682

VERSION AF104682.1 GI:7248421

KEYWORDS

SOURCE mitochondrion Capra ibex ibex (Alpine ibex)

ORGANISM Capra ibex ibex

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1 (bases 1 to 346)

AUTHORS Saulle, E., Di Pasquale, S. and Tartaglia, M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
 and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 346)

AUTHORS Saulle, E. and Tartaglia, M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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RESULT 3

BV298971/c

LOCUS BV298971 610 bp DNA linear STS 25-JAN-2005

DEFINITION S239P6149FB2.T0 ChinaGrayWolf Canis lupus STS genomic, sequence tagged site.

ACCESSION BV298971

VERSION BV298971.1 GI:57461206

KEYWORDS STS.

SOURCE Canis lupus (gray wolf)

ORGANISM Canis lupus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Carnivora; Fissipedia; Canidae;
 Canis.

REFERENCE 1 (bases 1 to 610)

AUTHORS Lindblad-Toh, K.

TITLE The genome sequence of Canis familiaris

JOURNAL Unpublished (2004)

COMMENT

Contact: Kerstin Lindblad-Toh
 Whitehead Institute for Biomedical Research, Center for Genome
 Research
 320 Charles Street, Cambridge, MA 02141, USA
 Tel: 6172521477
 Fax: 6172580903
 Email: kersli@genome.wi.mit.edu
 Primer A: No sequence submitted
 Primer B: No sequence submitted
 STS size: 610
 Protocol:
 WGS-discovery (WGS):
 Paired-end low-coverage whole genome shotgun reads were generated
 from 9 breeds
 (German Shepherd, Rottweiler, Bedlington Terrier, Beagle, Labrador
 Retriever, English
 Shepherd, Italian Greyhound, Alaskan Malamute and the Portuguese

SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-4.rge.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-4.rge.

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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 925.3 Seconds
(without alignments)
1313.089 Million cell updates/sec

Title: US-10-826-119-4
Perfect score: 17.8
Sequence: 1 tctggrrttgtgrtaraagt 19

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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- 9: gb_un:*
- 10: gb_vi:*
- 11: gb_ov:*
- 12: gb_htg:*
- 13: gb_in:*
- 14: gb_om:*
- 15: gb_ba:*

AF104682/c

LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000

DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene, complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial genes for mitochondrial products.

ACCESSION AF104682

VERSION AF104682.1 GI:7248421

KEYWORDS

SOURCE mitochondrion Capra ibex ibex (Alpine ibex)

ORGANISM Capra ibex ibex
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Capra.

REFERENCE 1 (bases 1 to 346)

AUTHORS Saulle, E., Di Pasquale, S. and Tartaglia, M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex, and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 346)

AUTHORS Saulle, E. and Tartaglia, M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina Elena 299, Rome 00161, Italy

FEATURES

source Location/Qualifiers

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Query Match 100.0%; Score 17.8; DB 14; Length 346;
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 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
 |||||:||||:|:|
 Db 227 TCTGGGTTGTGGTAGAAGT 209

RESULT 2

AF104681/c

LOCUS AF104681 350 bp DNA linear MAM 16-MAR-2000

DEFINITION Rupicapra rupicapra cytochrome oxidase subunit 2 (COII) gene,
 partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8
 gene, complete cds; and ATPase subunit 6 gene, partial cds,
 mitochondrial genes for mitochondrial products.

ACCESSION AF104681

VERSION AF104681.1 GI:7248417

KEYWORDS

SOURCE mitochondrion Rupicapra rupicapra (chamois)

ORGANISM Rupicapra rupicapra

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Rupicapra.

REFERENCE 1 (bases 1 to 350)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
 and red deer tRNA(Lys) and ATPase8 mitochondrial genes

JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)

PUBMED 10641890

REFERENCE 2 (bases 1 to 350)

AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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SCORE Search Results Details for Application 10826119 and Search Result 20061115_093753_us-10-826-119-4.rge.

Score Home	Retrieve Application	SCORE System	SCORE	Comments /
Page	List	Overview	FAQ	Suggestions

This page gives you Search Results detail for the Application 10826119 and Search Result 20061115_093753_us-10-826-119-4.rge.

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OM nucleic - nucleic search, using sw model

Run on: November 15, 2006, 22:42:03 ; Search time 925.3 Seconds
(without alignments)
1313.089 Million cell updates/sec

Title: US-10-826-119-4
Perfect score: 17.8
Sequence: 1 tctggrttgtgrtaraagt 19

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 6366136 seqs, 31973710525 residues

Total number of hits satisfying chosen parameters: 12732272

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenEmbl:*

- 1: gb_env:*
- 2: gb_pat:*
- 3: gb_ph:*
- 4: gb_pl:*
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- 13: gb_in:*
- 14: gb_om:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result	% Query					DB	ID	Description
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c	1	17.8	100.0	346	14		AF104682	AF104682 Capra ibe
c	2	17.8	100.0	350	14		AF104681	AF104681 Rupicapra
c	3	17.8	100.0	520	14		AB099040	AB099040 Bos tauru
c	4	17.8	100.0	567	14		AB099131	AB099131 Bos tauru
c	5	17.8	100.0	1241	14		CHMTDNA	X65975 C.hircus mi
	6	17.8	100.0	5351	14		AB075020	AB075020 Bos tauru
c	7	17.8	100.0	12785	14		AF493541	AF493541 Bos tauru
c	8	17.8	100.0	12785	14		AF493542	AF493542 Bos tauru
c	9	17.8	100.0	12785	14		AY308066	AY308066 Bos tauru
c	10	17.8	100.0	12785	14		AY308067	AY308067 Bos tauru
c	11	17.8	100.0	12785	14		AY308068	AY308068 Bos tauru
c	12	17.8	100.0	12785	14		AY308069	AY308069 Bos tauru
c	13	17.8	100.0	13210	14		AF490528	AF490528 Bos tauru
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c	16	17.8	100.0	16337	14		AB074963	AB074963 Bos tauru
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c	23	17.8	100.0	16337	14		DQ124395	DQ124395 Bos tauru
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c	25	17.8	100.0	16338	14		AF492351	AF492351 Bos tauru
c	26	17.8	100.0	16338	14		AY526085	AY526085 Bos tauru
c	27	17.8	100.0	16338	14		AY676863	AY676863 Bos tauru
c	28	17.8	100.0	16338	14		MI BTXX	V00654 Bos taurus
c	29	17.8	100.0	16339	14		AF492350	AF492350 Bos indic
c	30	17.8	100.0	16339	14		AY676855	AY676855 Bos tauru
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c	39	17.8	100.0	16340	14		AY676857	AY676857 Bos tauru
c	40	17.8	100.0	16340	14		AY676859	AY676859 Bos tauru
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ALIGNMENTS

RESULT 1

AF104682/c
 LOCUS AF104682 346 bp DNA linear MAM 16-MAR-2000
 DEFINITION Capra ibex ibex cytochrome oxidase subunit 2 (COII) gene, partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8 gene, complete cds; and ATPase subunit 6 gene, partial cds, mitochondrial genes for mitochondrial products.
 ACCESSION AF104682
 VERSION AF104682.1 GI:7248421
 KEYWORDS .
 SOURCE mitochondrion Capra ibex ibex (Alpine ibex)
 ORGANISM Capra ibex ibex
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Capra.
 REFERENCE 1 (bases 1 to 346)
 AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.
 TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex, and red deer tRNA(Lys) and ATPase8 mitochondrial genes
 JOURNAL J. Anim. Sci. 77 (12), 3398-3399 (1999)
 PUBMED 10641890
 REFERENCE 2 (bases 1 to 346)
 AUTHORS Saulle,E. and Tartaglia,M.
 TITLE Direct Submission
 JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina Elena 299, Rome 00161, Italy
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ORIGIN

Query Match 100.0%; Score 17.8; DB 14; Length 346;
 Best Local Similarity 84.2%; Pred. No. 2.3e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
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 Db 227 TCTGGTTGTGGTAGAAGT 209

RESULT 2

AF104681/c

LOCUS AF104681 350 bp DNA linear MAM 16-MAR-2000

DEFINITION Rupicapra rupicapra cytochrome oxidase subunit 2 (COII) gene,
 partial cds; tRNA-Lys gene, complete sequence; ATPase subunit 8
 gene, complete cds; and ATPase subunit 6 gene, partial cds,
 mitochondrial genes for mitochondrial products.

ACCESSION AF104681

VERSION AF104681.1 GI:7248417

KEYWORDS

SOURCE mitochondrion Rupicapra rupicapra (chamois)

ORGANISM Rupicapra rupicapra

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Caprinae; Rupicapra.

REFERENCE 1 (bases 1 to 350)

AUTHORS Saulle,E., Di Pasquale,S. and Tartaglia,M.

TITLE Rapid communication: nucleotide sequence of chamois, alpine ibex,
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AUTHORS Saulle,E. and Tartaglia,M.

TITLE Direct Submission

JOURNAL Submitted (06-NOV-1998) Reparto di Genetica Molecolare, Laboratorio
 di Biologia Cellulare, Istituto Superiore di Sanita, Viale Regina
 Elena 299, Rome 00161, Italy

FEATURES Location/Qualifiers

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Best Local Similarity 84.2%;  Pred. No. 2.3e+02;
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RESULT 3

AB099040/c

LOCUS AB099040 520 bp mRNA linear MAM 12-APR-2003

DEFINITION Bos taurus mitochondrial mRNA for similar to ATP synthase A chain (Protein 6), partial cds, clone: ORCS12732.

ACCESSION AB099040

VERSION AB099040.1 GI:28189830

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE

1
AUTHORS Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V., Nakano,H.,
Takahashi,T., Imai,K., Hirasawa,A., Shiojima,S., Ikawa,H.,
Suzuki,Y., Tsujimoto,G., Izaike,Y., Todoroki,J. and Hashizume,K.
TITLE Characterization of gene expression profiles in early bovine
pregnancy using a custom cDNA microarray

JOURNAL Mol. Reprod. Dev. 65 (1), 9-18 (2003)

PUBMED 12658628

REFERENCE 2 (bases 1 to 520)

AUTHORS Tsujimoto,G., Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V.,
Nakano,H., Konno,T., Ushizawa,K., Takahashi,T., Imai,K.,
Hirasawa,A., Shiojima,S., Ikawa,H., Suzuki,Y., Izaike,Y.,
Todoroki,J. and Hashizume,K.

TITLE Direct Submission

JOURNAL Submitted (25-DEC-2002) Gozoh Tsujimoto, National Research
Institute for Child Health and Development, Department of
Molecular, Cell Pharmacology; 3-35-31 Taishido, Setagaya, Tokyo
154-8567, Japan (E-mail:gtsujimoto@nch.go.jp, Tel:81-3-3149-2476,

Fax:81-3-3149-1252)

COMMENT This work was performed to collaborate with Developmental Biology Department, National Institute of Agrobiological Sciences. Address: 2 Ikenodai, Tsukuba, Ibaraki, 305-8602 Japan. Phone & Fax: 81-29-838-8633 e-mail: kazuha@affrc.go.jp
This work was funded by Organized Research Combination System (ORCS) project of Ministry of Education, Culture, Sports, Science and Technology.
5' end partial sequence.

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/note="mixture of uterus and placenta"
CDS
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/protein_id="BAC56530.1"
/db_xref="GI:28189831"
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ORIGIN

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Best Local Similarity 84.2%; Pred. No. 2.1e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
||||:||||:|:|
Db 65 TCTGGATTGTGATAAAAGT 47

RESULT 4

AB099131/c

LOCUS AB099131 567 bp RNA linear MAM 21-MAY-2003

DEFINITION Bos taurus mitochondrial RNA, similar to 12S rRNA, clone: ORCS11856.

ACCESSION AB099131

VERSION AB099131.1 GI:28189976

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE

1
AUTHORS Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V., Nakano,H.,
Takahashi,T., Imai,K., Hirasawa,A., Shiojima,S., Ikawa,H.,
Suzuki,Y., Tsujimoto,G., Izaike,Y., Todoroki,J. and Hashizume,K.
TITLE Characterization of gene expression profiles in early bovine
pregnancy using a custom cDNA microarray

JOURNAL Mol. Reprod. Dev. 65 (1), 9-18 (2003)

PUBMED 12658628

REFERENCE 2 (bases 1 to 567)

AUTHORS Tsujimoto,G., Ishiwata,H., Katsuma,S., Kizaki,K., Patel,O.V.,

Nakano,H., Konno,T., Ushizawa,K., Takahashi,T., Imai,K.,
Hirasawa,A., Shiojima,S., Ikawa,H., Suzuki,Y., Izaike,Y.,
Todoroki,J. and Hashizume,K.

TITLE Direct Submission

JOURNAL Submitted (25-DEC-2002) Gozoh Tsujimoto, National Research
Institute for Child Health and Development, Department of
Molecular, Cell Pharmacology; 3-35-31 Taishido, Setagaya, Tokyo
154-8567, Japan (E-mail:gtsujimoto@ench.go.jp, Tel:81-3-3149-2476,
Fax:81-3-3149-1252)

COMMENT This work was performed to collaborate with Developmental Biology
Department, National Institute of Agrobiological Sciences. Address:
2 Ikenodai, Tsukuba, Ibaraki, 305-8602 Japan. Phone & Fax:
81-29-838-8633 e-mail: kazuha@affrc.go.jp
This work was funded by Organized Research Combination System
(ORCS) project of Ministry of Education, Culture, Sports, Science
and Technology.
5' end partial sequence.

FEATURES Location/Qualifiers
source 1. .567
/organism="Bos taurus"
/organelle="mitochondrion"
/mol_type="genomic RNA"
/db_xref="taxon:9913"
/clone="ORCS11856"
/clone_lib="ORCS bovine utero-placenta cDNA"
/dev_stage="adult"
/note="mixture of uterus and placenta"
rRNA 3. .536
/note="similar to 12S ribosomal RNA"

ORIGIN

Query Match 100.0%; Score 17.8; DB 14; Length 567;
Best Local Similarity 84.2%; Pred. No. 2.1e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
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Db 96 TCTGGATTGTGATAAAAGT 78

RESULT 5

CHMTDNA/c

LOCUS CHMTDNA 1241 bp DNA linear MAM 24-MAY-1996

DEFINITION C.hircus mitochondrial DNA for tRNA(LYS) and F1-ATPase subunits 6
and 8.

ACCESSION X65975

VERSION X65975.1 GI:11740

KEYWORDS ATPase subunit 6; ATPase subunit 8; mitochondrial DNA; transfer
RNA-Lys.

SOURCE mitochondrion Capra hircus (goat)

ORGANISM Capra hircus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Caprinae; Capra.

REFERENCE

1 Dovc,P. and Hecht,W.

TITLE Rapid communication: nucleotide sequence of caprine mitochondrial
genes for tRNA(Lys) and two subunits of F0-ATPase

JOURNAL J. Anim. Sci. 73 (11), 3493 (1995)

PUBMED 8586610

REFERENCE 2 (bases 1 to 1241)

AUTHORS Dovic, P.
 TITLE Direct Submission
 JOURNAL Submitted (12-MAR-1992) P. Dovic, Institut fuer molekulare Tierzucht, Ludwig-Maximilians-Universitaet, Veterinaerstr 13, W-8000 Muenchen 22, FRG

FEATURES Location/Qualifiers
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 /dev_stage="adult"
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ORIGIN

Query Match 100.0%; Score 17.8; DB 14; Length 1241;
 Best Local Similarity 84.2%; Pred. No. 1.8e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
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 Db 289 TCTGGGTTGTGGTAGAAGT 271

RESULT 6

AB075020
 LOCUS AB075020 5351 bp mRNA linear MAM 08-JAN-2003
 DEFINITION Bos taurus Scd mRNA for stearoyl-CoA desaturase, complete cds.
 ACCESSION AB075020
 VERSION AB075020.1 GI:27544003
 KEYWORDS
 SOURCE Bos taurus (cattle)
 ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1
AUTHORS Taniguchi,M., Mannen,H., Shimakura,Y., Oka,A., Watanabe,H.,
Komatsu,M., Tanaka,K., Harper,G.S. and Tsuji,S.
TITLE Differences in stearyl-CoA desaturase mRNA levels in muscle
between Japanese Black and Holstein cattle
JOURNAL Unpublished

REFERENCE 2 (bases 1 to 5351)
AUTHORS Taniguchi,M., Mannen,H. and Tsuji,S.
TITLE Direct Submission
JOURNAL Submitted (30-NOV-2001) Masaaki Taniguchi, Kobe university,
Graduate school of science and technology; 1-1, Rokkoudai, Nada,,
Kobe, Hyogo 657-8501, Japan (E-mail:986d857n@y00.kobe-u.ac.jp,
Tel:81-78-803-5803, Fax:81-78-803-5801)

FEATURES Location/Qualifiers
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CDS 388. .1467
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ORIGIN

Query Match 100.0%; Score 17.8; DB 14; Length 5351;
Best Local Similarity 84.2%; Pred. No. 1.5e+02;
Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCTGGRTTGTGRTARAAGT 19
||||:||||:|:|
Db 7 TCTGGATTGTGATAAAAGT 25

RESULT 7

AF493541/c

LOCUS AF493541 12785 bp DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate D NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493541

VERSION AF493541.1 GI:20149067

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein, P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein, P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

source

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/organelle="mitochondrion"

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1. .957

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CDS

1. .957

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TLSTLITTOEQMWLILPAWPLAMWFIETLAETNRAPFDLTEGESELVSGFNVEYAAG

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gene

1166. .2209

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CDS

1166. .2209

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/db_xref="GI:20149069"

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CDS 6723. .7079
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CDS 7139. .7435
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/product="NADH dehydrogenase subunit 4L"
/protein_id="AAM12797.1"
/db_xref="GI:20149076"
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gene 7429. .8853
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Query Match 100.0%; Score 17.8; DB 14; Length 12785;
 Best Local Similarity 84.2%; Pred. No. 1.3e+02;
 Matches 16; Conservative 3; Mismatches 0; Indels 0; Gaps 0;

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Qy      1 TCTGGRTTGTGRTARAAGT 19
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Db      5141 TCTGGATTGTGATAAAAGT 5123

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RESULT 8

AF493542/c

LOCUS AF493542 12785 bp DNA linear MAM 15-APR-2002

DEFINITION Bos taurus isolate F.NADH dehydrogenase subunit 1 (ND1), NADH dehydrogenase subunit 2 (ND2), cytochrome oxidase subunit I (COI), cytochrome oxidase subunit II (COII), ATPase 8, ATPase 6, cytochrome oxidase subunit III (COIII), NADH dehydrogenase subunit 3 (ND3), NADH dehydrogenase subunit 4L (ND4L), NADH dehydrogenase subunit 4 (ND4), NADH dehydrogenase subunit 5 (ND5), NADH dehydrogenase subunit 6 (ND6), and cytochrome b (cytoB) genes, complete cds; mitochondrial genes for mitochondrial products.

ACCESSION AF493542

VERSION AF493542.1 GI:20149081

KEYWORDS

SOURCE mitochondrion Bos taurus (cattle)

ORGANISM Bos taurus

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Bovinae; Bos.

REFERENCE 1 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Bos Taurus Mitochondrial Protein Coding Regions

JOURNAL Unpublished

REFERENCE 2 (bases 1 to 12785)

AUTHORS Wettstein,P.J.

TITLE Direct Submission

JOURNAL Submitted (19-MAR-2002) Surgery Research, Mayo Foundation, Gugg. Room 5-42B, Rochester, MN 55905, USA

FEATURES Location/Qualifiers

source 1. .12785

/organism="Bos taurus"

/organelle="mitochondrion"

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gene      1166. .2209
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FMANSTTTILSLSHTWNKTPIMTVLILATLLSMGGLPPLSGFMPKWMIIQEMTKNNSI
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 Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
 Pecora; Bovidae; Bovinae; Bos.
 REFERENCE 1 (bases 1 to 12785)
 AUTHORS Wettstein, P.J., Lonza, R., Borson, N.D. and McLean, S.
 TITLE Direct Submission
 JOURNAL Submitted (27-MAY-2003) Dept of Surgery, Mayo Foundation, Gugg. Rm
 537, Rochester, MN 55905, USA
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SCORE 1.3 BuildData: 11/17/2006